

# TRANSIMS Deployment

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## Regulatory Issues for Air Quality Planning

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# EPA's Context

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- EPA is a regulatory Agency
  - » Clean Air Act statutory requirements
  - » Required coordination with DOT
- Better analyses allow better decisions
  - » Robust data
  - » Appropriate analytic tools

# History

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- EPA involvement began in 1993
  - » Office of Mobile Sources
  - » Office of Policy
- EPA - DOT areas of common focus
  - » Traveler behavior
  - » Vehicle/Traffic dynamics
  - » Travel growth patterns

# EPA Goals for TRANSIMS

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- Get the emissions right
  - » acceleration/deceleration
  - » engine load
  - » driving behavior
  - » fleet composition/condition

# EPA Goals for TRANSIMS

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- Capability for policy analyses
  - » non-SOV modes
  - » road pricing/incentives
  - » parking pricing/cashout
  - » latent/induced demand

# TRANSIMS Implementation

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- **TRANSIMS Early Deployment Program** provides MPO's implementation support
  - » funding
  - » technical assistance
- **TEDP areas must still adhere to CAA requirements**
  - » emissions inventories - on road sources
  - » attainment/maintenance demonstrations
  - » conformity

# Regulatory Framework

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- Travel activity forecasts and analyses of the regional transportation network are basic elements of CAA T/AQ planning requirements
- Adhering to the T/AQ planning procedures is complicated by the technical nature of TRANSIMS
  - » stochastic model
  - » non-MOBILE emissions

# Regulatory Issues

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- How will TRANSIMS affect emissions and air quality estimates in air quality plans?
- How can areas adequately comply with the technical procedures of conformity?
- How can consequences be minimized if results from TRANSIMS analyses are different than for current analyses?



# Acceptable Emissions

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- MOBILE is currently required for development of SIPs and conformity determinations
- Periodic update of emission factors required by CAA
  - » MOBILE based on 25,000+ vehicles and revised database
  - » TRANSIMS based on 300+ vehicles with no commitment to update

# Next Steps

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- EPA - DOT consultation
  - » discussion have already begun
  - » need to include other EPA divisions
- Surface additional issues with stakeholders
  - » MPOs and DOTs
  - » Air Agencies and Environmental groups

# Next Steps

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- Implementation
  - » emissions verification
  - » Transitional policies for TEDP areas
  - » Long term national policies
    - guidance and regulatory changes based upon TEDP experience